

AMENDMENTS TO THE CLAIMS:

Amend the claims as follows:

Claim 1-4. (Canceled)

5. (Currently Amended) Method of claim ~~[[4]]~~21, wherein said increased seed yield comprises at least an increase in the number of filled seeds.

6. (Currently Amended) Method of claim ~~[[4]]~~21, wherein said increased seed yield comprises at least an increase in total seed weight.

7. (Currently Amended) Method of claim ~~[[4]]~~21, wherein said increased seed yield comprises at least an increase in Harvest Index.

Claims 8-9. (Canceled)

Claims 10-11. (Canceled)

12. (Currently Amended) Method for the production of a transgenic plant having increased seed yield compared to corresponding control plants, which method comprises:

a) introducing into a plant or plant cell a nucleic acid sequence ~~or a portion thereof~~ encoding a polypeptide of TAD ~~protein or active fragment thereof~~ wherein said ~~TAD protein or active fragment thereof~~ comprises an ATPase domain having at least 70% ~~sequence identity to~~ SEQ ID NO:2;

b) cultivating the plant or plant cell under conditions promoting regeneration and mature plant growth.

Claims 13-20. (Canceled)

21. (Previously Presented) Method for increasing seed yield of a plant compared to corresponding control plants by introducing an expression cassette comprising a nucleic acid sequence encoding a polypeptide of SEQ ID NO:2, wherein said plant has increased seed yield.